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# C1919M-C (11/00) PV130 RS-232/422 Converter Kit Installation Instructions

## DESCRIPTION

The PV130 RS-232/422 Converter Kit provides a bi-directional electrical interface between RS-232 and RS-422 data ports.

The plug-in power supply, included in this package, allows the PV130 to communicate serial port data over wire pairs for distances up to 4,000 feet (1,219 m) on the RS-422 side.

User must supply all necessary cable between converter and receivers.

Contents of this package:

Qty	Description	Part number
1	RS-232/422 Converter	EE03-1235-5430
1	12 VDC power supply, 1.2W	PS04-1000-0112

## INSTALLATION

Refer to Figure 1 during the installation instructions that follow.

### Control Connections

1. Attach the 9-pin side of the converter to the computer's serial port or to the COM 2 port on the PelcoVision Transmitter.
2. Wire the receiver's RX- and RX+ terminals to the converter's TX- and TX+ terminals. If necessary, use a 120-ohm resistor to terminate the line at the receiver's RX- and RX+ terminals.

**NOTE:** Proper operation of an RS-422 circuit requires that the active devices at both ends of the communications facility be referenced to a common ground, such as earth. If the ground is established through a metallic conductor, it is recommended that 100-ohm resistors be placed in series with the ground connection at each end (refer to Figure 2). This will limit any currents that may be caused by other ground paths.

### Connecting the Power Supply (See Figure 1)

1. Connect the black/white stripe wire to the converter's +12 VDC terminal and the solid black wire to the GND terminal.
2. Plug the power supply into a 115 VAC wall socket or power strip.

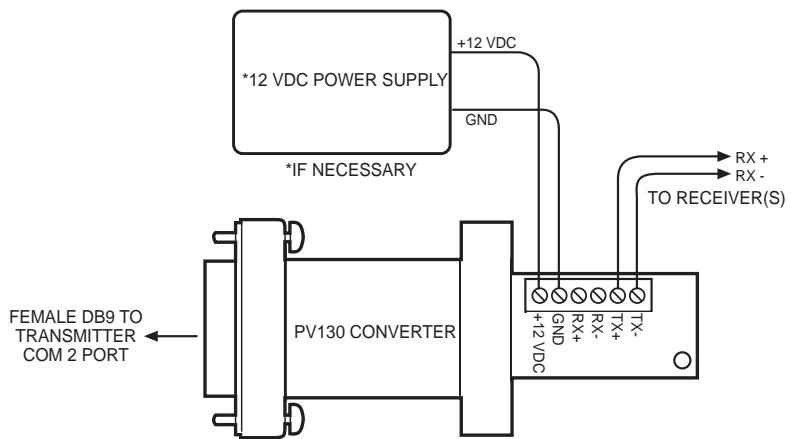


Figure 1. Connection Diagram

### **Testing (Refer to PV1000 Instruction/Operation Manual)**

1. Ensure that the PV1016 Transmitter DIP switch settings or the PV1004 Transmitter programming are correct for the telemetry type required by the receiver.
2. Ensure that the PV1000 Transmitter is properly programmed for the COM 2 port baud rate and parity required by the receiver.
3. Confirm receiver PTZ control from a PV1016 Transmitter with front panel keyboard (while off-line) or from the PV1016 Receiver (while on-line). Check for smooth operation.

### **Common Causes for Control Problems**

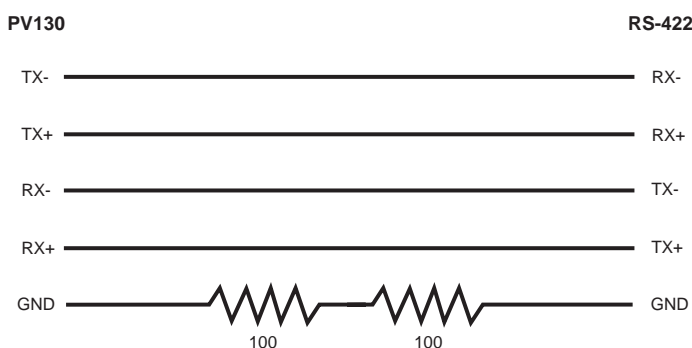
#### **No Control**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Transmitter DIP switch settings or programming incorrect for receiver type.</li> <li>• Transmitter COM 2 port baud rate and/or parity programming incompatible with receiver type.</li> </ul> | <ul style="list-style-type: none"> <li>• Converter-to-receiver twisted pair connections reversed or wired incorrectly.</li> <li>• Power supply +12 VDC and GND connections to converter reversed.</li> </ul> |
|--|--|

#### **Erratic Control**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Cabling between converter and receiver incompatible with RS-422 operation.</li> <li>• Wire distance between converter and receiver requires suitable termination at receiver.</li> </ul> | <ul style="list-style-type: none"> <li>• Wire distance between converter and receiver exceeds 4,000 feet.</li> <li>• Video coax cable has Coaxitron® or other “up-the-coax” control information present.</li> </ul> |
|---|---|

**Figure 2. RS-422 Circuit Wiring Diagram**



### **WARRANTY AND RETURN INFORMATION**

#### **WARRANTY**

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment. Exceptions to this warranty are as noted below:

- Three years on Genex® Series (multiplexers, server, and keyboard).
- Two years on cameras and all standard motorized or fixed focal length lenses.
- Two years on Legacy®, Camclosure™ Camera Systems, CM6700/CM8500/CM9500/CM9750/CM9760 Matrix, PelcoVision®, DF5 Series and DF8 Fixed Dome products.
- Two years on Spectra® and Esprit™, including when used in continuous motion applications.
- Two years on WW5700 series window wiper (excluding wiper blades).
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

#### **RETURNS**

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair). Goods returned for repair or credit should be clearly identified with the assigned CA/RA number and freight should be prepaid. All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Ship freight prepaid to: Pelco  
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Clovis, CA 93612-5699

### **REVISION HISTORY**

Manual #	Date	Comments
C1919M	9/97	Original version.
C1919M-A	3/00	Revised installation instructions and Figure 1. Added Figure 2.
C1919M-B	7/00	Corrected RX polarity in Figure 1.
C1919M-C	11/00	Revised drawings to reflect label change.